



KERALA GAZETTE

കേരള ഗസറ്റ്

PUBLISHED BY AUTHORITY

ആധികാരികമായി പ്രസിദ്ധപ്പെടുത്തുന്നത്

Vol. LV വാല്യം 55	THIRUVANANTHAPURAM, TUESDAY തിരുവനന്തപുരം, ചൊവ്വ	6th April 2010 2010 ഏപ്രിൽ 6 16th Chaithra 1932 1932 ചൈത്രം 16	No. നമ്പർ	14
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COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

NOTIFICATIONS

(1)

No. Conf. II/2941/2/2007-(1).

29th October 2008.

In Exercise of the powers conferred by Section 24 (ii) read with Section 42 (1) of CUSAT ACT, 1986 (Act 31 of 1986) the Academic Council at its meeting held on 4-8-2007 resolved to approve the following Regulations/Amendments in the Regulation and revision in the Scheme of Examination for various courses of studies as follows:

1. The revised Scheme of Examination for M. Tech. (Opto Electronics and Laser Technology) Degree Course offered by International School of Photonics as in Appendix-I {Item I b (1) of the minutes of the meeting of the Academic Council} is made effective from 2007 admission onwards.

2. The revised Scheme of Examination for the five year M. Sc. (Photonics) course is made applicable from I Semester of 2007 admission as well as from 7th Semester of the ongoing batches (from 2004 admission onwards) Appendix-II {Item I b (2) of the minutes of the meeting of the Academic Council}.

3. Modifications in Scheme of Examinations for the M. Phil. Photonics course is made applicable from 2007 admission onwards. {Appendix-III (Item I b (4) of the minutes of Academic Council}.

4. The Regulations for five year integrated M. Sc. Degree course in Photonics is approved, {Appendix IV (Item I b (5) of the Academic Council minutes} and made applicable from 2007 admission onwards.

5. The Eligibility Criteria for admission to M. Tech. Degree Course in VLSI and Embedded Systems offered at ER and DC Institute, Thiruvananthapuram is modified as follows and made applicable from 2006 admission onwards (Clause 2.1 of the Regulation for M. Tech., VLSI and Embedded Systems).

“At least a second class B. Sc. Engineering or Equivalent degree in Electronics and Communication Engineering, Electronics and Instrumentation and Electrical and Electronics Engineering”.

Instead of

“At least a second class B. Sc. (Engineering) or Equivalent degree in Electronics and Communication Engineering, Electronics and Instrumentation and Information Technology”.

The Vice- Chancellor in exercise of the powers conferred by Section 11 (11) of the CUSAT ACT 1986 approved the above, subject to ratification by the Syndicate.

The Syndicate at its 531st meeting held on 28-6-2008 vide item 531.36 ratified this action taken by Vice-Chancellor.

APPENDIX I

M. TECH (OE & LT)

Scheme of Examination (Revised)

<i>Course Code</i>	<i>Paper</i>	<i>Core/Elective</i>	<i>Credits</i>	<i>Marks</i>
(1)	(2)	(3)	(4)	(5)
Semester I				
ISP 3101	Modern Optics	C	4	100
ISP 3102	Laser Technology	C	4	100
ISP 3103	Optoelectronics	C	4	100
ISP 3104	Industrial Management	C	1	50
ISP 3105	Lab Course I	C	3	100
ISP 3106	Optical Communication Technology	E	3	100
Total			16	550
Semester II				
ISP 3201	Fibre Optics and Applications	C	4	100
ISP 3202	Lab Course II	C	3	100
ISP 3203	Mini project, seminar	E	1	50
<i>Any 3 Electives:</i>				
ISP 3204	Laser Applications	E	3	100
ISP 3205	Non Liner Optics etc.	E	3	100
ISP 3206	Digital Communication	E	3	100
ISP 3207	Industrial Photonics	E	3	100
ISP 3208	Advanced Laser Systems	E	3	100
ISP 3209	Biophotonics	E	3	100
ISP 3210	Nanophotonics	E	3	100
ISP 3211	Digital Signal Processing	E	3	100
ISP 3212	Laser Spectroscopy	E	3	100
ISP 3213	Photonics Materials and Devices	E	3	100
ISP 3214	Science and Technology of Plasma	E	3	100
ISP 3215	Integrated Optics	E	3	100
Total			18	750
Semester III				
ISP 3301	Project	C	18	400
Semester IV				
ISP 3401	Project	C	18	400
Total Credits			72	1900

Courses for outside departments (2-credits courses)

- ISP 501 Lasers and Applications
- ISP 502 Fibre Optics and Applications
- ISP 503 Nonlinear Optics and Optical Computing
- ISP 504 Biophotonics
- ISP 505 Quantum Mechanics for Engineers

APPENDIX II

CENTRE OF EXCELLENCE IN LASERS AND OPTOELECTRONICS SCIENCES

Cochin University of Science and Technology

Integrated M.Sc. Degree in Photonics—The Course Structure

[Applicable from 1st Semester of 2007 Admission and from the 7th Semester of the on-going Batches
(From 2004 Admission onwards)]

<i>Course</i>	<i>Subject</i>	<i>Work/Week</i>			<i>Credit</i>	<i>Marks</i>		
		<i>Lecture</i>	<i>Lab</i>	<i>Tutorial</i>		<i>IE</i>	<i>UE</i>	<i>Total</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Semester I								
CEL 1101	Mechanics and Wave Phenomena	3	..	1	3	50	50	100
CEL 1102	Electricity and Magnetism	3	..	1	3	50	50	100
CEL 1103	Optics I—Geometrical Optics	3	..	1	3	50	50	100
CEL 1104	Mathematics I	3	..	1	3	50	50	100
CEL 1105	Statistical Methods	3	..	1	3	50	50	100
CEL 1106	Lab/Viva	..	6	..	3	100+50	..	150
CEL 1107	Communicative English	2	..	1	2	100	..	100
Total for Semester I		17	6	6	20	500	250	750
Semester II								
CEL 1201	Electronics I—Basic Electronics	3	..	1	3	50	50	100
CEL 1202	Optics II—Physical Optics	3	..	1	3	50	50	100
CEL 1203	Mathematics II	3	..	1	3	50	50	100
CEL 1204	Classical Mechanics	3	..	1	3	50	50	100
CEL 1205	Nuclei, Particles and Beams	3	..	1	3	50	50	100
CEL 1206	Lab/Viva	..	6	..	3	100+50	..	150
CEL 1207	History of Science and Technology	1	..	1	1	50	..	50
Total for Semester II		16	6	6	19	450	250	700
Semester III (Subject Modified)								
CEL 1301	Electronics II—Analog and Digital Electronics	3	..	1	3	50	50	100
CEL 1302	Optics III—Optical Instrumentation	3	..	1	3	50	50	100
CEL 1303	Thermodynamics and Statistical Mechanics	3	..	1	3	50	50	100
CEL 1304	Mathematics III	3	..	1	3	50	50	100
CEL 1305	Atomic Spectroscopy	3	..	1	3	50	50	100
CEL 1306	Lab/Viva	..	6	..	3	100+50	..	150
CEL 1307	Seminar	1	..	..	1	50	..	50
Total for Semester III		16	6	5	19	450	250	700

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Semester IV								
CEL 1401	Electronics III-Microprocessors and their Applications	3	..	1	3	50	50	100
CEL 1402	Computer Science	3	..	1	3	50	50	100
CEL 1403	Quantum Mechanics I	3	..	1	3	50	50	100
CEL 1404	Electromagnetic Theory and Relativistic Phenomena	3	..	1	3	50	50	100
CEL 1405	Mathematics IV	3	..	1	3	50	50	100
CEL 1406	Lab/Viva	..	6	..	3	100+50	..	150
CEL 1407	Workshop	1	..	..	1	100	..	100
CEL 1408	Seminar	1	..	..	1	50	..	50
Total for Semester IV		17	6	5	20	550	250	800
Semester V								
CEL 1501	Optics IV-Applied Optics	3	..	1	3	50	50	100
CEL 1502	Electronics IV-Electronic Instrumentation	3	..	1	3	50	50	100
CEL 1503	Quantum Mechanics II	3	..	1	3	50	50	100
CEL 1504	Materials Science	3	..	1	3	50	50	100
CEL 1505	Molecular Spectroscopy	3	..	1	3	50	50	100
CEL 1506	Lab/Viva	..	6	..	3	100+50	..	150
CEL 1507	Seminar	1	..	..	1	50	..	50
Total for Semester V		16	6	5	19	450	250	700
Semester VI								
CEL 1601	Photonics I- Optoelectronics	3	..	1	3	50	50	100
CEL 1602	Photonics II-Fibre Optics	3	..	1	3	50	50	100
CEL 1603	Photonics III-Laser Physics	3	..	1	3	50	50	100
CEL 1604	Project/Viva	..	12	..	4	200	..	200
CEL 1605	Lab/Viva	..	6	..	3	100+50	..	150
Total for Semester VI		9	18	3	16	500	150	650
Total for Semester I-VI					113	2900	1400	4300

Course number of electives 2EX1-2EX7 correspond to course numbers of electives chosen from the list of electives given separately. For example if 2E01 Network analysis and Communication Engineering and 2E03 Optical Sensor Technology are given as the Elective I and Elective II respectively in the VII semester then CEL 2EX1 and CEL 2EX2 will be CEL 2E01 and 2E03 respectively:

<i>Code</i>	<i>Title</i>	<i>Hrs./wk.</i>			<i>Credit</i>	<i>Marks</i>		
		<i>Theory</i>	<i>Lab</i>	<i>Tutorial</i>		<i>IE</i>	<i>UE</i>	<i>Total</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Semester VII								
CEL2701	Advanced Solid State theory	4	..	1	4	50	50	100
CEL2702	Laser systems & Laser Applications	4	..	1	4	50	50	100
CEL2EX1	Elective I	3	..	1	3	50	50	100
CEL2EX2	Elective II	3	..	1	3	50	50	100
CEL2703	Lab I—Electronics	..	4	..	2	100	..	100
CEL2704	Lab II—Mathematical Modelling & Simulation	..	4	..	2	100	..	100
CEL2705	Seminar/Viva	1	..	..	1	100	..	100
Total for Semester VII		15	8	4	19	500	200	700
Semester VIII								
CEL2801	Nonlinear Optics	4	..	1	4	50	50	100
CEL2802	Digital Signal Processing and Optical Signal Processing	4	..	1	4	50	50	100
CEL2EX3	Elective III	3	..	1	3	50	50	100
CEL2EX4	Elective IV	3	..	1	3	50	50	100
CEL2803	Lab I—Electronics	..	4	..	2	100	..	100
CEL2804	Lab II—Photonics	..	4	..	2	100	..	100
CEL2805	Seminar/Viva	1	..	..	1	100	..	100
Total for Semester VIII		15	8	4	19	500	200	700
Semester IX								
CEL2901	Optical Communication	4	..	1	4	50	50	100
CEL2902	Lab I—Fibre Optics Lab	..	4	..	2	100	..	100
CEL2903	Lab II—Photonics Lab	..	4	..	2	100	..	100
CEL2904	Seminar/Viva	1	..	..	1	100	..	100
CEL2EX5	Elective V	3	..	1	3	50	50	100
CEL2EX6	Elective VI	3	..	1	3	50	50	100
CEL2EX7	Elective VII	3	..	1	3	50	50	100
Total for Semester IX		14	8	4	18	500	200	700
Electives								
CEL2E01	Network Analysis and Communication Engineering							
CEL2E02	Discrete Mathematics and Wavelets Theory							
CEL2E03	Optical Sensor Technology							
CEL2E04	Advanced Electromagnetic Theory							
CEL2E05	Optical Computing							
CEL2E06	Microwave Photonics							
CEL2E07	Atom Optics							
CEL2E08	Laser Spectroscopy							

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
CEL2E09	Quantum Optics	..	..	..	..	..	..	..
CEL2E10	Photonics Materials							
CEL2E11	Optomechanical Engineering							
CEL2E12	Industrial Photonics							
CEL2E13	Biophotonics							
CEL2E14	Nanophotonics							
CEL2E15	Advanced Laser Systems							

Semester X

CEL2X01	Project/viva	..	..	..	16	200+ 100	200+ 100	600
Total for Semester X		..	..	..	16	300	300	600

Total Credits for the Course

Semesters	Credits	Marks		
		IE	UE	Total
Total for VII—X	72 (Core 51 and Electives 21 Credits)	1800	900	2700
Total for I—VI	113	2900	1400	4300
Total for I—X	185	4700	2300	7000

APPENDIX III

M. PHIL (PHOTONICS)

Scheme of Examination (Modified)

Course	Subject	Work/ lecture	Week Lab	Credit marks	Internal	External	Total
Semester I							
Ph. 3101	Lasers & Opto Electronics	5	5	5	100	100	200
Ph. 3102	Fibre Optics & Optical Image Processing	5	5	5	100	100	200
Ph. 3103	Teaching & Learning Techniques in University Science and Technology Education	3	..	3	100	..	100
Ph. 3104	Education—Mini Project	5	..	2	50	..	50
Ph. 3105	Seminar	2	..	1	50	..	50
Total for I Semester		20	10	16	400	200	600
Semester II							
Ph. 3201	Project work	..	..	..	..	..	..
Ph. 3202	Viva based on project	..	..	14	150	150	300
		..	..	..	50	50	100
Total for II Semester		..	..	14	200	200	400
Total for the Course		20	10	30	600	400	1000

APPENDIX IV

FIVE YEAR INTEGRATED M. S c. DEGREE COURSE IN PHOTONICS

Being Offered by

CENTRE OF EXCELLENCE IN LASERS AND OPTOELECTRONIC SCIENCES (CELOS)

Applicable from 2007 Admission

The following regulations are made applicable to the Five year Integrated M.Sc. degree course in Photonics being offered by CELOS of Cochin University of Science and Technology with effect from the 2007 admission.

1. Eligibility for Admission

Qualifying examination for the admission of the Five year Integrated M.Sc. Degree course in Photonics is +2 or equivalent with Physics, Chemistry and Mathematics as the elective subjects.

2. Admission

Admission to the Course is based on the Common Admission Test (CAT) conducted by the University.

3. Duration

Duration of the course is 10 semesters. Each semester is of 16 weeks duration.

4. Grade System

Following Grade System on Ten-Point Scale is adopted.

<i>Range of Marks %</i>	<i>Grades</i>	<i>Weightage (G)</i>
90 and above	S-Outstanding	10
80-90	A-Excellent	9
70-80	B-Very Good	8
60-70	C-Good	7
50-60	D-Satisfactory	6
Below 50	F-Failed	0

X-Y means that 'X' is included and 'Y' is excluded.

Overall performance after each semester will be indicated by Grade Point Average (GPA) calculated as follows:

$$GPA = (C_1 G_1 + C_2 G_2 + C_3 G_3 + \dots + C_n G_n) / (C_1 + C_2 + \dots + C_n)$$

Where C refers to the credit value of the course and G is the Grade weightage.

At the end of the 10th semester CGPA will be calculated based on the above formula.

Accumulated minimum credits required for the successful completion of the course is 185.

5. Classification for the Degree will be given as follows

<i>Classification</i>	<i>CGPA</i>
First Class with Distinction	8 and above
First Class	6.5 and above
Second Class	6 and above
Fail	Below 6

6. Mode of Evaluation

Mode of evaluation will be same as followed by the existing practice in which 50% marks will be through internal evaluation and remaining 50% will be by the examination conducted by the University.

7. Promotion to nth Semester

For promotion to nth semester student have to clear all papers up to n-3 semesters.

8. Evaluation of the Teachers by the students:

For effectiveness and improvement in the delivery of the course, there should be student evaluation of teachers. A format for evaluation may be prepared by the DC. The feed back have to be confidential and may be discussed with the respective teachers by the HOD/Director, so that he/she can modify the teaching and learning and learning methodology followed by him/her.

9. E-Learning format in Teaching and Learning:

CUSAT campus has 8mbps connectivity and has e-learning platform called Black Board. Free software modules can be used. In order to encourage on-line teaching and learning atleast one module of a paper should be delivered through e-learning format. This may be made applicable to at least Science and Technology Courses in which the e-learning technique will be very effective.

10. A paper on Teaching and Learning Methodology of Science and Technology:

One Audited course on Teaching and Learning and Learning Methodology of Science and Technology at University Level is to be introduced. This paper is being offered for M.Phil. (Photonics). This paper will be useful for those who want to go for teaching profession.

11. Course Co-ordination Committee:

Course in each semester have to be co-ordinated by a Co-ordination Committee consisting of the Director of ISP/C (LOS), Course Co-ordinator and all the teachers handling the courses. The Committee should meet at least once in two weeks to monitor the courses. A student representative of the class may be invited as and when necessary to provide feed back from the side of the students.

12. Revision of Regulation and Curriculum:

The University may, from time to time, amend or change the Regulations, Schemes of Examinations and Syllabus. In case of students already undergoing the course, the change will take effective from the beginning of the following academic year after the changes are introduced and shall cover the part of the course that remains to be completed.

These regulations take precedence over existing Integrated M.Sc. Degree Course in Photonics in so far as inconsistencies are observed.

(2)

No. Conf. II/2941/2/07(3).

5th September 2008.

In exercise of its powers conferred by section 24 (ii) read with Section 42(1) of CUSAT Act, 1986, the Academic Council at its meeting held on 4-8-2007 resolved to approve the schemes of examination for 3rd and 4th Semester B.Tech. Course in Engineering (all 9 branches) as appended.

The Syndicate at its meeting held on 31-5-2008 vide agenda item 530.29 has approved above decision taken by the Academic Council and made it effective from 2006 admissions.

B. TECH DEGREE COURSE IN CIVIL ENGINEERING

Scheme of Examinations

Code No.	Subject	Hrs./week		Marks		
		L	T/D/P	Internal	University	Total
Semester III						
CE 301	Engineering Mathematics–II	4		50	100	150
CE 302	Surveying–I	3	1	50	100	150
CE/EE 303	Strength of Materials	3	1	50	100	150
CE 304	Concrete Technology	4		50	100	150
CE 305	Fluid Mechanics–I	3	1	50	100	50
CE 306	Engineering Materials and Building Construction	4		50	100	150
CE 307	Survey Practicals–I		3	100		100
CE 308	Strength of Materials Lab.		3	100		100
Total		21	9	500	600	1100

STREAM A

Semester IV

CE 401 A/B	Engineering Mathematics–III	4		50	100	150
CE 402 A/B	Surveying–II	3	1	50	100	150
CE 403 A/B	Mechanics of Structures	3	1	50	100	150
CE 404 A/B	Engineering Geology and Seismology	4		50	100	150
CE 405 A/B	Fluid Mechanics–II	3	1	50	100	150
CE 406 A/B	Construction Engineering and Management–I	3	1	50	100	150
CE 407 A	Survey Practicals–II		3	100		100
CE 408 A	Fluid Mechanics Lab.		3	100		100
Total		20	10	500	600	1100

STREAM B

Semester IV

CE 401 A/B	Engineering Mathematics–III	4		50	100	150
CE 402 A/B	Surveying–II	3	1	50	100	150
CE 403 A/B	Mechanics of Structures	3	1	50	100	150
CE 404 A/B	Engineering Geology and Seismology	4		50	100	150
CE 405 A/B	Fluid Mechanics–II	3	1	50	100	150
CE 406 A/B	Construction Engineering and Management–I	4		50	100	150
CE 407 B	Survey Practicals–II		3	75		75
CE 408 B	Fluid Mechanics Lab.		3	75		75
CE 409 B	Industrial/Field Training		6	75		75
Total		21	15	525	600	1125

B. TECH COMPUTER SCIENCE AND ENGINEERING

(W. e. f. 2006 Admissions)

Course Code	Subject Name	Hrs/week		Marks		
		L	T/D/P	Internal	University	Total
Semester III						
CE/CS/EB/EC/EE/ EI/IT/ME/SE 301	Engineering Mathematics–II	4		50	100	150
CS 302	Logic Design	4		50	100	150
CS/IT 303	Discrete Computational structures	4		50	100	150
CS/IT 304	Object Oriented Programming	4		50	100	150
CS 305	Principles of Programming Languages	4		50	100	150
CS/EB/EE 306	Electronic devices and Circuits	4		50	100	150
CS/EE 307	Electronics Circuits Laboratory		3	100		100
CS/IT 308	Object Oriented Programming Lab		3	100		100
Total		24	6	500	600	1100

Semester IV

CE/CS/EB/EC/ EE/EI/IT/ME/ SE 401	Engineering Mathematics–III	4		50	100	150
CS/EB/EC/EI 402	Microprocessors	4		50	100	150
CS 403	Computer Architecture and Organization	4		50	100	150
CS/IT 404	Automata, Languages and Computation	4		50	100	150
CS/IT 405	Data Structures and Algorithm	4		50	100	150
CS/IT 406	Data Communication	4		50	100	150
CS/EB/EC/EE/407	Digital Electronics Laboratory		3	100		100
CS/IT 408	Data structures Lab		3	100		100
Total		24	6	500	600	1100

B. TECH ELECTRONICS AND BIOMEDICAL ENGINEERING

(W. e. f. 2006 Admissions)

Course Code	Subject Name	Hrs/week		Marks		
		L	T/D/P	Internal	University	Total
Semester III						
CE/CS/EB/EC/EE/ EI/IT/ME/SE 301	Engineering Mathematics–II	4		50	100	150
EB/EC/EI/IT/ME / 302	Electrical Technology	4		50	100	150
EB 303	Principles of Anatomy and Physiology	4		50	100	150
EB/EC/EI 304	Digital Electronics	4		50	100	150
EB 305	Medical Physics	4		50	100	150
CS/EB/EE 306	Electronic devices and Circuits	4		50	100	150
EB/EC/EI 307	Basic Electronics Laboratory		3	100		100
EB/EC/EI 308	Electrical Machines Laboratory		3	100		100
Total		24	6	500	600	1100

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Semester IV						
CE/CS/EB/EC/ EE/EI/IT/ME/ SE 401	Engineering Mathematics III	4		50	100	150
CS/EB/EC/EI 402	Microprocessors	4		50	100	150
EB 403	Integrated Circuits and Systems	4		50	100	150
EB 404	Bioelectric Phenomena	4		50	100	150
EB 405	Communication Techniques	4		50	100	150
EB/EC/EE/EI 406	Industrial and Power Electronics	4		50	100	150
CS/EB/EC/EE/EI 407	Digital Electronics Laboratory		3	100		100
EB 408	Analog Circuits Laboratory		3	100		100
Total		24	6	500	600	1100

B. TECH ELECTRONICS AND COMMUNICATION ENGINEERING

w. e. f. 2006 Admissions

Course code	Subject Name	Hrs/week		Marks		
		L	T/D/P	Internal	University	Total
Semester III						
CE/CS/EB/EC/EE/ EI/IT/ME/SE 301	Engineering. Mathematics–II	4		50	100	150
EB/EC/EI/IT/ME 302	Electrical Technology	4		50	100	150
EC/EI 303	Network Theory	4		50	100	150
EB/EC/EI 304	Digital Electronics	4		50	100	150
EC/EI 305	Solid State Electronics	4		50	100	150
EC/EI 306	Electronic Circuits I	4		50	100	150
EB/EC/EI 307	Basic Electronics Laboratory		3	100		100
EB/EC/EI 308	Electrical Machines Laboratory		3	100		100
Total		24	6	500	600	1100

Semester IV

CE/CS/EB/EC/ EE/EI/IT/ME/ SE 401	Engineering Mathematics III	4		50	100	150
CS/EB/EC/EI 402	Microprocessors	4		50	100	150
EC/EI 403	Electronics Circuits II	4		50	100	150
EC/EI 404	Signals and Systems	4		50	100	150
EC/EE 405	Analog Communication	4		50	100	150
EB/EC/EE/EI 406	Industrial and Power Electronics	4		50	100	150
CS/EB/EC/EE/ EI 407	Digital Electronics Laboratory		3	100		100
EC 408	Electronic Circuits Laboratory I		3	100		100
Total		24	6	500	600	1100

B. TECH ELECTRICAL AND ELECTRONICS ENGINEERING
(2006 Admission onwards)

Course Code	Subject Name	Hrs/week		Marks		
		L	T/D/P	Internal	University	Total
Semester III						
CE/CS/EB/EC/EE/ E1/IT/ME/SE 301	Engineering Mathematics II	4		50	100	150
EE 302	Fluid Mechanics & Heat Engines	4		50	100	150
CE/EE 303	Strength of Materials	4		50	100	150
EE 304	Electric Circuit Theory	4		50	100	150
EE 305	Electrical Measurements and Measuring Instruments	4		50	100	150
CS/EB/EE 306	Electronic Devices and Circuits	4		50	100	150
CS/EE 307	Electronic Circuits Lab		3	100		100
EE 308	Basic Electrical Engineering Lab		3	100		100
Total		24	6	500	600	1100

Semester IV

CE/CS/EB/EC/ EE/E1/IT/ME/ SE 401	Engineering Mathematics III	4		50	100	150
EE 402	Logic Design	4		50	100	150
EE 403	Electrical Machines I	4		50	100	150
EE 404	Linear System Analysis	4		50	100	150
EC/EE 405	Analog Communication	4		50	100	150
EC/EB/EI/EE 406	Industrial and Power Electronics	4		50	100	150
CS/EB/EI/EC/EE/407	Digital Electronics Lab		3	100		100
EE 408	Electrical Measurements Lab		3	100		100
Total		24	6	500	600	1100

B. TECH ELECTRONICS AND INSTRUMENTATION ENGINEERING
(W. e. f. 2006 Admissions)

Course Code	Subject Name	Hrs/week		Marks		
		L	T/D/P	Internal	University	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)

Semester III

CE/CS/EB/EC/EE/ E1/IT/ME/SE 301	Engineering Mathematics II	4		50	100	150
EB/EC/EI/IT/ME 302	Electrical Technology	4		50	100	150
EC/EI 303	Network Theory	4		50	100	150
EB/EC/EI 304	Digital Electronics	4		50	100	150
EC/EI 305	Solid State Electronics	4		50	100	150
EC/EI 306	Electronic Circuits I	4		50	100	150
EB/EC/EI 307	Basic Electronics Laboratory		3	100		100
EB/EC/EI 308	Electrical Machines Laboratory		3	100		100
Total		24	6	500	600	1100

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Semester IV						
CE/CS/EB/EC/ EE/EI/IT/ME/ SE 401	Engineering Mathematics III	4		50	100	150
CS/EB/EC/EI 402	Microprocessors	4		50	100	150
EC/EI 403	Electronic Circuits II	4		50	100	150
EC/EI 404	Signals and Systems	4		50	100	150
EI 405	Principles of Measurement and Instrumentation	4		50	100	150
EB/EC/EE/EI 406	Industrial and Power Electronics	4		50	100	150
CS/EB/EC/EE/EI 407	Digital Electronics Laboratory	..	3	100		100
EI 408	Electronic Circuits Laboratory	..	3	100		100
Total		24	6	500	600	1100

B. TECH INFORMATION TECHNOLOGY

(w.e.f. 2006 Admissions)

Course Code	Subject Name	Hrs./week		Marks		
		L	T/D/P	Internal	University	Total
Semester III						
CE/CS/EB/EC/EE EI/IT/ME/SE 301	Engineering Mathematics II	4		50	100	150
EC/EB/EI/IT/ME 302	Electrical Technology	4		50	100	150
CS/IT 303	Discrete Computational Structures	4		50	100	150
CS/IT 304	Object Oriented Programming	4		50	100	150
IT 305	Electronic Circuits & Logic Design	4		50	100	150
IT 306	Computer Organization	4		50	100	150
IT 307	Logic Design Lab	..	3	100	..	100
CS/IT 308	Object Oriented Programming Lab	..	3	100	..	100
Total		24	6	500	600	1100

Semester IV

CE/CS/EB/EC/EE EI/IT/ME/SE 401	Engineering Mathematics III	4		50	100	150
IT 402	Microprocessor Architecture & System Design	4		50	100	150
IT 403	Operations Research	4		50	100	150
CS/IT 404	Automata, Languages and Computation	4		50	100	150
CS/IT 405	Data Structures and Algorithm	4		50	100	150
CS/IT 406	Data Communication	4		50	100	150
IT 407	PC Hardware and Microprocessor Lab	..	3	100		100
CS/IT 408	Data Structures Lab	..	3	100		100
Total		24	6	500	600	1100

B. TECH MECHANICAL ENGINEERING
(w.e.f. 2006 Admissions onwards)

Course Code	Subject Name	Hrs./Week		Marks		
		L	T/D/P	Internal	University	Total
Semester III						
CE/CS/EB/EC/EE/ EI/IT/ME/SE 301	Engineering Mathematics-II	4	..	50	100	150
EB/EC/EI/IT/ME 302	Electrical Technology	4	..	50	100	150
ME 303	Mechanics of Solids	4	..	50	100	150
ME 304	Fluid Mechanics	4	..	50	100	150
ME 305	Metallurgy & Mat. Science	4	..	50	100	150
ME 306	Machine Drawing	1	3	50	100	150
ME 307	Strength of Materials Lab	..	3	100	..	100
ME 308	Fluid Mechanics Lab	..	3	100	..	100
	Total	21	9	500	600	1100
Semester IV						
CE/CS/EB/EC/EE/ EI/IT/ME/SE 401	Engineering Mathematics-III	4	..	50	100	150
ME 402	Industrial Electronics	4	..	50	100	150
ME 403	Advanced Mechanics of Solids	4	..	50	100	150
ME 404	Applied Thermodynamics	4	..	50	100	150
ME 405	Hydraulic Machinery	4	..	50	100	150
ME 406	Manufacturing Process	4	..	50	100	150
ME 407	Electrical Lab	..	3	100	..	100
ME 408	Computational Lab	..	3	100	..	100
	Total	24	6	500	600	1100

B. TECH DEGREE COURSE IN SAFETY & FIRE ENGINEERING
Scheme of Examinations—Semesters III & IV
(2006 Admissions onwards)

Code No.	Subject	Hrs./Week		Marks		
		L	T/D/P	Internal	University	Total
Semester III						
CE/CS/EB/EC/EE/ EI/IT/ME/SE 301	Engineering Mathematics-II	4	..	50	100	150
SE 302	Chemical Engineering-I	4	..	50	100	150
SE 303	Fluid Mechanics and Fluid Flow Machines	4	..	50	100	150
SE 304	Manufacturing Processes	4	..	50	100	150
SE 305	Elements of Machine Drawing	1	3	50	100	150
SE 306	Principles of Safety Management	4	..	50	100	150
SE 307	Machine Shop	..	3	100	..	100
SE 308	Fluid Mechanics and Machinery Lab	..	3	100	..	100
	Total	21	9	500	600	1100

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Semester IV						
CE/CS/EB/EC/EE/ EI/IT/ME/SE 401	Engineering Mathematics-III	4	..	50	100	150
SE 402	Chemical Engineering II	4	..	50	100	150
SE 403	Strength of Materials	4	..	50	100	150
SE 404	Fire Engineering I	4	..	50	100	150
SE 405	Electrical Technology and Safety in Electrical Systems	4	..	50	100	150
SE 406	First Aid and Emergency Procedures	4	..	50	100	150
SE 407	Strength of Materials Lab	..	3	100	..	100
SE 408	Electrical Technology Lab	..	3	100	..	100
Total		24	6	500	600	1100

(3)

No. Conf. II/2941/2/07 (4).

6th October 2008.

In exercise of the powers conferred under Section 24 (ii) read with 42 (1) of CUSAT Act 1986, the Academic Council at its meeting held on 4-8-2007 resolved that the rules regarding Lateral Entry for B. Tech. Degree Course in Polymer Science and Rubber Technology and Instrumentation will be the same as those followed in courses offered by School of Engineering and further regularized the B. Tech Lateral Entry admissions of these courses from 2004 admissions onwards.

The Syndicate at its meeting held on 19-7-2008 vide item 532.08 approved the above decision taken by the Academic Council.

(4)

No. Conf. II/2941/2/07 (5).

6th October 2008.

In exercise of the powers conferred by Section 24 (ii) read with 42 (1) of the CUSAT Act, 1986, the Academic Council at its meeting held on 4-8-2007 resolved that "The Classification and Finalization of the results for B. Tech Instrumentation students admitted through Lateral Entry shall be made based on six semesters attended by the students".

The Syndicate at its meeting held on 19-7-2008 vide item No. 532.08 approved the above decision taken by the Academic Council and made it effective from 2004 admissions.

(5)

No. Conf. II/2941/2/07 (6).

6th October 2008.

In exercise of the powers conferred by Section 24 (ii) read along with 42 (1) of CUSAT Act, 1986, the Academic Council at its meeting held on 4-8-2007 resolved to approve the credit system formula for calculation of approximate percentage of marks from CGPA as follows.

$$\text{CGPA} = \text{Approximately } 55 + 10 (\text{CGPA} - 6)\%$$

As per this scheme candidates with $\text{CGPA} \geq 6.5$ will be placed in First Class and $\text{CGPA} \geq 8$ will be placed in First Class with Distinction.

The Syndicate at its 532nd meeting (vide item 532.08) held on 19-7-2008 made it effective from 2004 pass out batch (as recommended by Academic Council at its meeting held on 26-3-2008) and from 2007 admissions (as recommended by Academic Council Meeting held on 4-8-2007).

(6)

No. Conf. II/2941/2/07 (7).

6th October 2008.

Read:—Notification No. Conf.II/NOT/8/05 dated 18-10-2005.

In exercise of the powers conferred by Section 24 (ii) and 42 (1) of CUSAT Act 1986, the Academic Council at its meeting held on 4-8-2007 resolved to incorporate certain amendments to Clause 23 of the Ph.D Regulations 2004.

- In Section 23, Clause (iii) the following be added after the word University, "alongwith a CD containing soft copy of the synopsis in PDF format".
- In Section 23, Clause (vii) following be added after the word Faculty concerned in the first sentence, "alongwith a CD containing soft copy of the thesis in PDF format".

The Syndicate at its (532.08) meeting held on 19-7-2008 approved the above amendment and made it effective from 4-8-2007, the date of meeting of the Academic Council.

The Notification read, stands modified to this extent.

Cochin University P. O.,
Kochi-22.

(Sd.)
Registrar.